

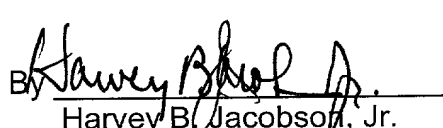
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED / ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>P67183US0</b>
		US APPLICATION NO. (If known, see 37 CFR 1.5) <b>09/926309</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP00/2420</b>	INTERNATIONAL FILING DATE <b>13 April 2000</b>	PRIORITY DATE CLAIMED <b>14 April 1999</b>
TITLE OF INVENTION <b>METHOD FOR RENEWING LIVING BEING PERMANENTLY</b>		
APPLICANT(S) FOR DO/EO/US <b>Izumi ARAI</b>		

**Applicant herein submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.**

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for Internatl. Preliminary Examination was made by the 19th month from earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the Internatl. Preliminary Examination report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11. to 16. below concern other document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:
  - PCT Request Form
  - First Page of Publication
  - Small Entity Declaration

US APPLICATION NO (If known, see 37 CFR 1.5) <b>09/926309</b>		INTERNATIONAL APPLICATION NO <b>PCT/JP00/02420</b>		ATTORNEY'S DOCKET NUMBER <b>P67183US0</b>	
17. <input checked="" type="checkbox"/> The following fees are submitted:  <b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b> Internatl. prelim. examination fee paid to USPTO (37 CFR 1.492 (a) (1)) .. \$710.00 No international preliminary examination fee paid to USPTO (37 CFR 1.492 (a) (2)) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) .. \$740.00 Neither international preliminary examination fee (37 CFR 1.492 (a) (3)) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO) ..... <b>\$1040.00</b> International preliminary examination fee paid to USPTO (37 CFR 1.492 (a) (4)) and all claims satisfied provisions of PCT Article 33(2)-(4) ..... \$100.00 Search Report prepared by the EPO or JPO (37 CFR 1.492 (a) (5)) ..... <b>\$890.00</b>  <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				CALCULATIONS	PTO USE ONLY
				\$ 890.00	
Surcharge of \$130.00 for furnishing the <b>oath or declaration</b> later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 130.00	
<b>Claims</b>	<b>Number Filed</b>	<b>Number Extra</b>	<b>Rate</b>		
Total Claims	13 - 20 =	-0-	x \$18.00	\$	
Independent Claims	3 - 3 =	-0-	x \$84.00	\$	
Multiple Dependent Claim(s) (if applicable)			+ \$280.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1020.00	
Reduction by 1/2 for filing by <b>small entity</b> , if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).				\$ 510.00	
<b>SUBTOTAL =</b>				\$ 510.00	
Processing fee of \$130 for furnishing the <b>English translation</b> later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f))				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 510.00	
Fee of \$40.00 for recording the enclosed <b>assignment</b> (37 CFR 1.21(h)). Assignment must be accompanied by appropriate cover sheet (37 CFR 3.28, 3.31).				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$ 510.00	
				Amt. to be refunded:	\$
				Amt. charged:	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>510.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. <u>06-1358</u> in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge my account any additional fees set forth in §1.492 during the pendency of this application, or credit any overpayment to Deposit Account No. <u>06-1358</u> . A duplicate copy of this sheet is enclosed.					
SEND ALL CORRESPONDENCE TO:  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>JACOBSON HOLMAN PLLC</b>            400 7th Street, N.W., Suite 600            Washington, DC 20004            202-638-6666  <b>CUSTOMER NUMBER: 00136</b> </div> <div style="width: 45%; text-align: right;">             Harvey B. Jacobson, Jr.            Reg. No. 20,851         </div> </div>					

METHOD FOR RENEWING  
LIVING BEING PERMANENTLY  
(PCT/JP00/02420)

Izumi Arai  
19-16, Senjumidoricho 2-chome,  
Adachi-ku, Tokyo 120-0044 Japan

The field of my invention

This invention belongs to the field of biology and life science.

Past ways of thinking

So far, all creatures were thought to die.

The point of my invention

This invention liberates creatures from death. In order to attain the purpose, this invention is repetition of the exchange process of organs produced by regenerating cells, tissues, and organs of living things.

Concise explanations of my inventive figures

The first figure shows that an egg produced by nuclear transplantation from cells of individuals and clones is cultivated.

The second figure shows that an individual regains one's health by exchanging old hurt organs such as cells, tissues, and organs of the individual injured in diseases and accidents for new regenerated ones such as cells, tissues, and organs prepared in clone bodies.

The effective method of my invention

I will explain this invention in detail, according to attached figures.

To begin with, as Fig.1 shows, the nucleus of the cell in individuals or clone bodies is transplanted into an egg. Namely, the cell in individuals containing the same types of genes is united with the non-fertilized egg in which polar bodies and chromosomes were removed. And by cell fusion the nucleus is transferred from the cell to the egg. The egg after nuclear transplantation is nurtured in the incubator such as artificial organs or is developed in living bodies such as greater omentum, uterus, etc. And regenerated organs of clone bodies are created like cells, tissues, and organs, as Fig.2 shows. It is possible to take in different kinds of cells, tissues, and organs such as chloroplasts, mitochondria, gills, wings, etc.

Old hurt organs such as cells, tissues, and organs of the individual injured in diseases and accidents are exchanged for new regenerated organs such as healthy cells, tissues, and organs. And an individual is restored to health. Old hurt organs such as cells, tissues, and organs of the injured individual are absorbed or removed, but a part of old ones can be utilized over again. Also, clone bodies can be reconstructed. The individual develops from not only the fertilized oocyte but also the differentiated cell. Therefore, by return from the individual, to the organ, to the tissue, and to the cell, that is, the basic level, I can recover healthy individuals, organs, tissues, and cells even from injured individuals, organs, tissues, and cells. Also, it is possible to unite them across the border of each level.

On respective cells, tissues, and organs, by repetition of the above process, I can maintain healthy individuals. Hurt organs injured in diseases and accidents are various on each occasion. As the need arises, I repeat this inventive course. And I can renovate life infinitely toward the eternal future. I can use together artificial materials and spontaneous recovery from internal troubles by external stimuli.

### The significance in my invention

In this way, my invention permanently keeps individuals healthy by newly changing each hurt organs such as cells, tissues, and organs of individuals injured in a great variety of diseases and accidents for healthy regenerated organs such as cells, tissues, and organs containing the same types of genes. With repeating this process succeedingly to the future, I can incorporate the improvement by higher quality genes suitable for survival, artificial materials, new energy utility systems, etc., into these repetitive processes. And then I can raise the capacity of interchangeable cells, tissues, and organs, create more versatile progress of individuals, and eternally renovate life.

### The scope of my invention

I repeat the process of exchanging hurt organs such as cells, tissues, and organs of individuals injured in diseases and accidents for newly-made healthy ones by regenerating cells, tissues, and organs of life, etc. And I preserve everlasting healthy individuals and rescue creatures from death. By these succeedingly repeated processes toward the future, replacement for better quality genes and utilization of artificial materials and new energy systems are integrated into these processes. In this way, I can improve the performance of cells, tissues, and organs, and create the individual evolving diversely, and renovate life perpetually.

### The summary

In the past, living things were thought to die. I liberate creatures from death, and renovate life forever. I regenerate organs(6) such as cells, tissues, and organs of clone bodies(5) produced by the cultivation(4) of the egg(3) whose nucleus(2) is transplanted from the

cell(1) of individuals or clone bodies. And I replace hurt organs(7) such as cells, tissues, and organs of individuals injured in diseases and accidents(8) for newly regenerated ones(6). Therefore I can regain healthy individuals(9). I repeat these processes shown in Fig.2. Whenever injuries occur in various diseases and accidents, etc., I repeat these above processes, with using together high quality genes, artificial materials, the construction of new organ systems, spontaneous recovery by external stimuli, etc. And then I can improve the performance of cells, tissues, and organs, and promote the diverse evolution of individuals.

What is claimed is:

1. A method of maintaining the health of a subject which comprises replacing at least one organ present in the subject with at least one cloned organ.
2. The method of claim 1, wherein the organ that is replaced is diseased, injured, or both.
3. The method of claim 1, wherein the cloned organ is cloned from the subject's genetic material.
4. The method of claim 1, wherein the step is repeated when the cloned organ becomes diseased, injured, or both.
5. The method of claim 1, which further comprises utilizing a part of the organ that is replaced.
6. The method of claim 5, wherein the part of the organ that is replaced is used to clone the cloned organ.
7. A method of reconstructing a body of a subject which comprises cloning the body from a cell of the subject, a tissue of the subject, an organ of the subject, or a combination thereof
8. A method of treating a subject which comprises replacing at least one organ present in the subject with at least one cloned organ and repeating when the cloned organ becomes diseased, injured, or both or replacing at least one gene of the subject with a better quality gene.

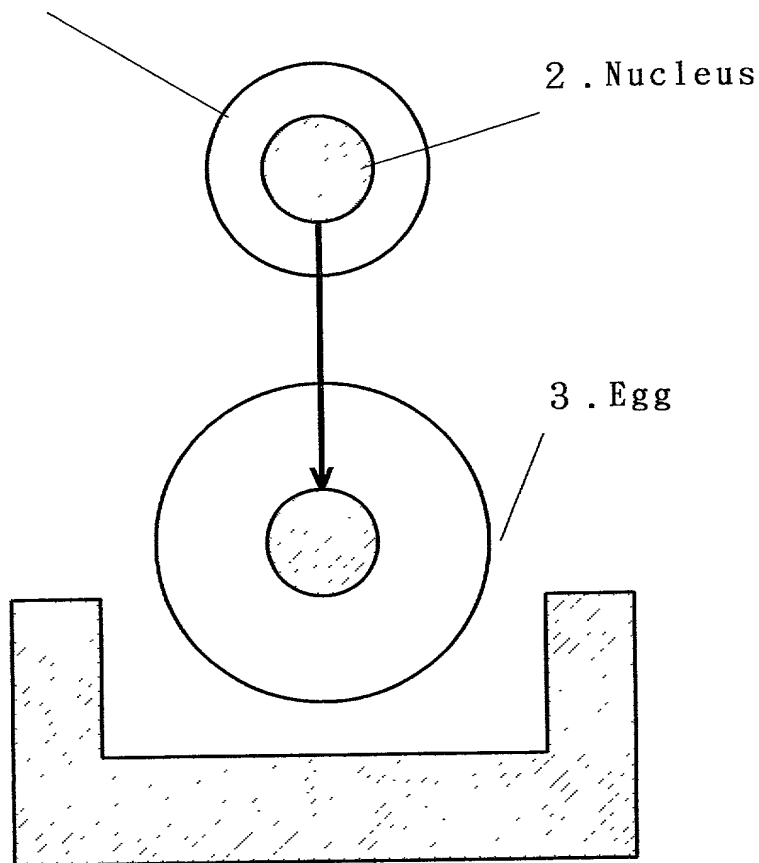
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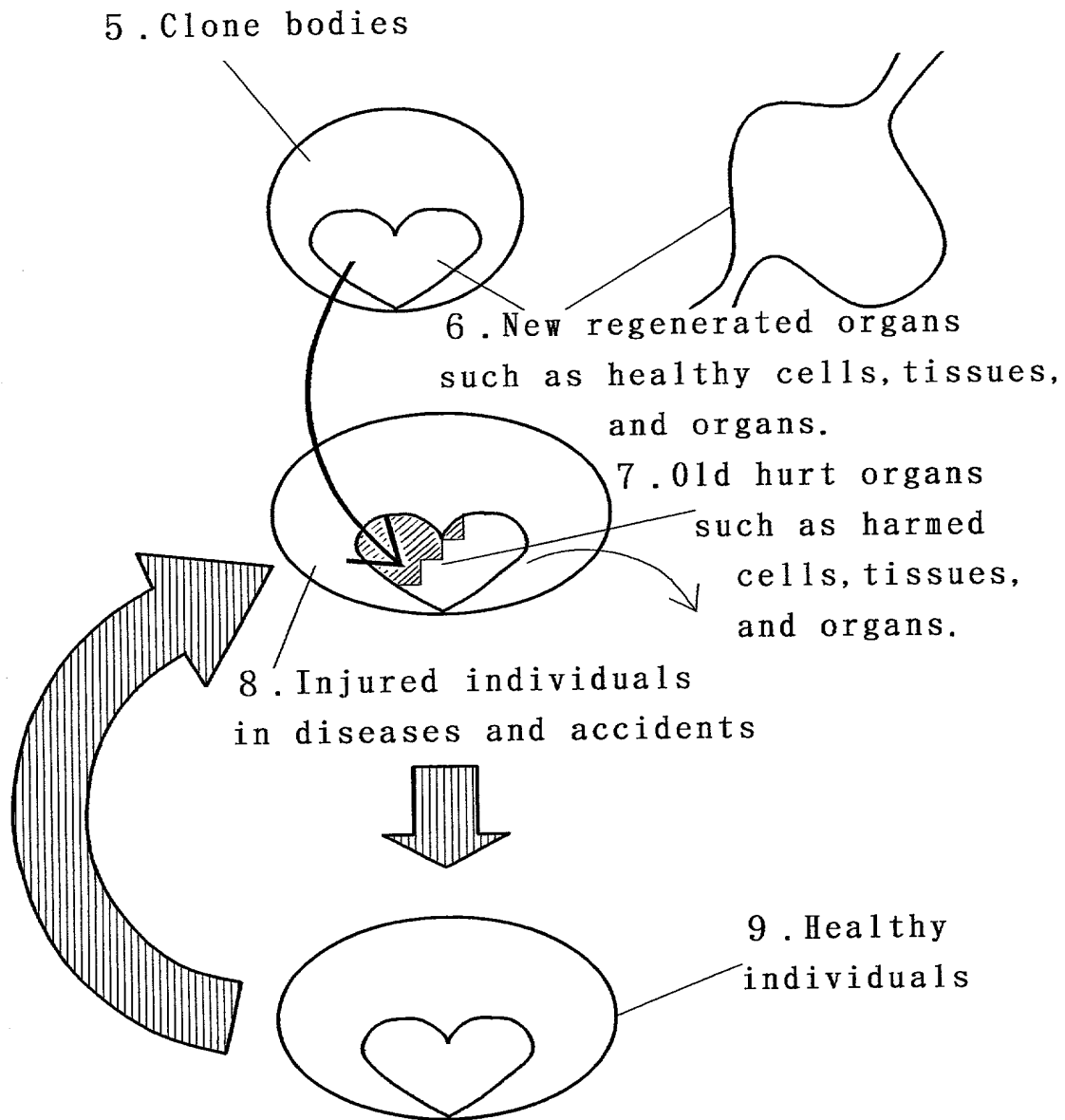
## Figure No. 1

1. The cell in individuals or clone bodies containing the same types of genes



4. The cultivation in the incubator such as artificial organs, or in living bodies such as greater omentum, uterus, etc.

Figure No. 2



DECLARATION  
AND POWER OF ATTORNEY  
U.S.A.

ALL PATENTS, INCLUDING DESIGN  
FOR APPLICATION BASED ON PCT; PARIS CONVENTION;  
NON PRIORITY; OR PROVISIONAL APPLICATIONS

FOR ATTORNEYS' USE ONLY

ATTORNEYS' DOCKET NO.

P67183US0

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed at 201 below), or an original, first and joint inventor (if plural inventors are named below at 201-203, or on additional sheets attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

METHOD FOR RENEWING LIVING BEING PERMANENTLY

which is described and claimed in: ☒ PCT International Application No. PCT/JP00/02420 filed April 13, 2000  
☐ the attached specification ☒ the specification in application Serial No. \_\_\_\_\_ filed October 11, 2001  
(if applicable) and amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.  
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.  
I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
<u>154200</u>	<u>JAPAN</u>	<u>14 April 1999</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
____	____	____	<input type="checkbox"/>	<input type="checkbox"/>
____	____	____	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_ Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No. ) to prosecute this application, receive and act on instructions from my agent, and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MARVIN R. STERN (20,640); ALLEN S. MELSER (27,215); MICHAEL R. SLOBASKY (26,421); JONATHAN L. SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLAYER (31,409); YOON S. HAM (45,307) and NATHANIEL A. HUMPHRIES (22,772)

SEND CORRESPONDENCE TO: CUSTOMER NO. 00136

or

**JACOBSON HOLMAN**  
PROFESSIONAL LIMITED LIABILITY COMPANY  
400 SEVENTH STREET, N.W.  
WASHINGTON, D.C. 20004

DIRECT TELEPHONE CALLS TO:

(please use Attorney's Docket No.) (202) 638-6666

**JACOBSON HOLMAN**  
PROFESSIONAL LIMITED LIABILITY COMPANY

Inventor(s) name must include at least one unabbreviated first or middle name.

	FULL NAME * OF INVENTOR	FAMILY NAME	GIVEN NAME	MIDDLE NAME
201	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY
				ZIP CODE
202	FULL NAME * OF INVENTOR	FAMILY NAME	GIVEN NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY
				ZIP CODE
203	FULL NAME * OF INVENTOR	FAMILY NAME	GIVEN NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY
				ZIP CODE

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201*	SIGNATURE OF INVENTOR 202*	SIGNATURE OF INVENTOR 203*
<u>X Izumi Arai</u>		
DATE <u>September 27, 2001</u>	DATE	DATE

☐ Additional inventors are named on separately numbered sheets attached hereto

Law Offices of  
**JACOBSON HOLMAN**  
PROFESSIONAL LIMITED LIABILITY COMPANY  
THE JENIFER BUILDING  
400 SEVENTH STREET, N.W.  
WASHINGTON, DC 20004

Attny's Docket No. \_\_\_\_\_

**SMALL ENTITY DECLARATION**  
[37 CFR 1.9(c-f)]

Each undersigned declares that:

(1) ☒ the application attached hereto.

(2) ☐ U.S. Application Serial No. \_\_\_\_\_, filed \_\_\_\_\_

(3) ☐ U.S. Patent No. \_\_\_\_\_ Issued \_\_\_\_\_

is entitled to the benefits of "small entity" status for paying reduced fees under 35 USC 41(a) and (b) to the Patent and Trademark Office by virtue of the following:

(4) ☒ Each undersigned declares that he/she qualifies as an independent inventor, or would qualify had he/she made the as defined in 37 CFR 1.9(c).

(5) ☐ The undersigned declares that he/she is an official empowered to act on behalf of the concern identified below; that concern qualifies as a small business concern as defined in 37 CFR 1.9(d); that exclusive rights to the invention have been conveyed to and remain with the small business concern, or if the rights are not exclusive, that all other rights belong to small entities as defined in 37 CFR 1.9.

(6) ☐ The undersigned declares that he/she is an official empowered to act on behalf of the organization identified below; that organization qualifies as a nonprofit organization as defined in

(a) ☐ 37 CFR 1.9(e)(1)

(b) ☐ 37 CFR 1.9(e)(2)

(c) ☐ 37 CFR 1.9(e)(3)

(d) ☐ 37 CFR 1.9(e)(4) State law of \_\_\_\_\_;

that exclusive rights to the invention have been conveyed to and remain with the organization, or if the rights are not exclusive, that all other rights belong to organizations as defined in 37 CFR 1.9.

(7) Each person, concern or organization to which I/we have assigned, granted, conveyed or licensed, or am under an under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

(a) ☒ no such person, concern or organization

(b) ☐ persons, concerns or organization listed below

[a separate declaration is required from each named person, concern or organization having rights to this invention averring to their status as "small entities."]

Full Name \_\_\_\_\_

Address \_\_\_\_\_

☐ Individual

☐ Small Business Concern

☐ Nonprofit Organization

I/we acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement of small entity prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I/we hereby declare all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.

(8) Izumi Arai Izumi Arai September 27, 2001  
Typed Name of Inventor Signature Date

\_\_\_\_\_  
Typed Name of Inventor Signature Date

\_\_\_\_\_  
Typed Name of Inventor Signature Date

\_\_\_\_\_  
Typed Name of Inventor Signature Date

(9) \_\_\_\_\_  
Name of Small Business Concern or Nonprofit Organization

\_\_\_\_\_  
By Signature Date

\_\_\_\_\_  
Title of Signatory

## INSTRUCTIONS FOR THE COMPLETION OF SMALL ENTITY DECLARATION

Check box (1) if for use with application about to be filed.

Check box (2) or (3) if for use with application already on file or Patent and complete U.S. Serial No. and Filing Date, or Patent No. and issue date, if known.

CHECK ONLY ONE OF BOXES 4, 5 OR 6, WHICHEVER IS APPLICABLE

Check box (4), individuals who are either: (a) an inventor or (b) a person who would qualify as an independent inventor had he/she made the invention, must sign and date at (8), if he/she have not, and are under no obligation to assign, grant, convey or license any right in the invention to any person who could not likewise be classified as an independent inventor if that person had made the invention or to any concern which would not qualify as a small business concern or non-profit organization (see below).

Check box (5), date, complete name of small business concern and authorized signatory, sign and complete his/her title at (9), if small entity status is claimed by virtue of inventor(s) rights having been, or being obligated to assign, grant, convey or license, to a concern whose number of employees, including those of its affiliates, does not exceed 500 persons. Concerns are affiliates when either controls, directly or indirectly, or has the power to control, the other, or a third party has the power to control both. Number of employees is average over fiscal year of those employed during each pay period, including full-time, part-time or temporary employees. If the small business concern has or is under obligation by contract or law to transfer any rights to another who cannot qualify as small entity, then small entity status not applicable.

Check box (6) and subsection (a), (b), (c) or (d), date, complete name of the nonprofit organization and authorized signatory sign and complete his/her title at (9), if small entity status is claimed by virtue of inventor(s) rights having been, or being obligated to, assign, grant, convey or license, to a nonprofit organization. Subsection (6)(a) to be checked if organization is university or other institution of higher learning; (6)(b) to be checked if organization of type described in Section 501(c)(3) of IRS Code and exempt from taxation under Section 501(a); (6)(c) to be checked if organization is nonprofit scientific or educational organization qualified under a statute of State of the U.S.; and (6)(d) to be checked if foreign organization and would qualify under (6)(b) or (6)(c) if such organization was located in the U.S.A. Fill in the State law under which the organization would qualify.

Check box (7)(a) or (b) as the facts dictate.

## IMPORTANT

(1) Note that U.S. lawyers and agents cannot complete this document after signed. Therefore please completely fill it in before sending to us.

(2) Each person, concern or organization that has an interest in this invention must sign one of the "Small Entity" Declarations. For example, if an inventor/employee has an obligation to assign to his employer, a corporation having fewer than 500 employees, which corporation has licensed this invention to a licensee corporation also having less than 500 employees, then three "Small Entity" declarations are necessary before the lesser fee can be paid: one from the inventor; one from an official of the employer; and one from an official of the licensee. In the declarations by the inventors and the employer paragraph 7(b) would have to be checked and filled in, the licensee would check paragraph 7(a).

We will be pleased to answer your questions. You may contact us in the following ways:

**JACOBSON HOLMAN**  
PROFESSIONAL LIMITED LIABILITY COMPANY

TELEPHONE: (202) 638-6666  
TELFAX: (202) 393-5350  
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